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WHAT IS CLAIMED IS:

1. An apparatus for assessing a risk of a terrorist attack comprising:

a memory;

an input device;

a display device; and

a processor connected to the memory, the input device and the display device, the processor being configured to perform the steps of:

inputting information about a site of potential terrorist attack from a user;

constructing a model of the site based on the information input from the user;

accepting a designation from the user of a weapon and delivery point at the site;

determining an accessability of the site to the weapon/delivery point by determining

a threat vector which is mostly likely the threat vector by which the weapon will be delivered and the

likelihood of a successful delivery based on the model;

determining a probability that a terrorist attack will occur; and calculating a relative risk based at least partially on the accessibility and probability.

- 2. The apparatus of Claim 1, wherein the relative risk is further based on a consequence calculation.
- 3. The apparatus of Claim 2, wherein the consequence calculations is performed by outputting data including model data to a consequence calculator plug-in and accepting consequence data from the plug-in.
- 4. The apparatus of Claim 1, wherein the processor is further configured to perform the step of preparing a report including the probability, accessability and relative risk.
- 5. The apparatus of Claim 1, wherein the processor is further configured to perform the step of displaying a three dimensional representation of the most likely threat vector to the user.

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- 6. The apparatus of Claim 1, wherein the relative risk is calculated using a Bayesian network.
 - 7. A method for assessing a risk of a terrorist attack comprising the steps of: inputting information about a site of a potential terrorist attack from a user; constructing a model of the site based on the input from the user; accepting a designation from the user of a weapon and delivery point at the site;

determining an accessability of the site to the weapon/delivery point by determining a threat vector which is mostly likely the threat vector by which the weapon will be delivered and the likelihood of a successful delivery based on the model;

determining a probability that a terrorist attack will occur; and calculating a relative risk based at least partially on the accessibility and probability.

- 8. The method of Claim 7, wherein the relative risk is further based on a consequence calculation.
- 9. The method of Claim 8, wherein the consequence calculations is performed by outputting data including model data to a consequence calculator plug-in and accepting consequence data from the plug-in.
- 10. The method of Claim 7, wherein the processor is further configured to perform the step of preparing a report including the probability, accessability and relative risk.
- 11. The method of Claim 7, wherein the processor is further configured to perform the step of displaying a three dimensional representation of the most likely threat vector to the user.
- 12. The method of Claim 7, wherein the relative risk is calculated using a Bayesian network.
 - 13. A method of assessing risk comprising the steps of: calculating a probability that an event will occur; calculating a vulnerability to the event; and

calculating a relative risk based on the probability and vulnerability; wherein the calculating steps are performed using an artificial intelligence network.

- 14. The method of Claim 13, wherein the artificial intelligence network is a Bayesian network.
- 15. The method of Claim 13, wherein the vulnerability is based upon a susceptability to the event and a consequence of the event.
- 16. The method of Claim 15, wherein the susceptability is based upon an accessability which is determined from a model of a physical environment.
 - 17. The method of Claim 13, wherein the risk is a risk of a terrorist attack.
 - 18. The method of Claim 13, wherein the risk is a risk of an infrastructure attack.
 - 19. The method of Claim 13, wherein the risk is a risk of an information theft.
 - 20. The method of Claim 13, wherein the risk is financial loss.
 - 21. The method of Claim 13, wherein the risk is insurance loss.
 - 22. The method of Claim 13, wherein the risk is environmental hazard.
- 23. The method of Claim 13, wherein the risk is risk of loss or damage to on-orbit satellite systems and constellations.
 - 24. The method of Claim 13, wherein the risk is associated with air travel.
 - 25. The method of Claim 13, wherein the risk is associated with highway travel.
- 26. The method of Claim 13, wherein the risk is associated with manned and unmanned space travel.
 - 27. The method of Claim 13, wherein the risk is associated with military action.
 - 28. The method of Claim 13, wherein the risk is injury to a person.
 - 29. The method of Claim 13, wherein the risk is crime committed on a person.
 - 30. The method of Claim 13, wherein the risk is a risk to home security.
 - 31. The method of Claim 13, wherein the risk is a risk to building security.

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- 32. The method of Claim 13, wherein the risk is program and project risk management.
- 33. An apparatus for assessing risk comprising:

a database for storing information including information about at least one actor, physical surroundings, and expert observations;

a simulation and gaming environment in communication with the database for determining a threat vector and a likelihood that the threat will succeed;

a plug-in interface in communication with the database and connectable to a consequence calculator for outputting information from the database to the consequence calculator and inputting information concerning a consequence of an undesirable event; and

a decision support system in communication with the database for calculating a relative risk based on probability and vulnerability determined from information in the database and information from the simulation and gaming environment and the plug-in interface.

- 34. The apparatus of claim 33, further comprising a report generator for assembling a report concerning the relative risk.
- 35. The apparatus of claim 34, further comprising a theater information management system for sharing database information with remote terminals or computers.
 - 36. The apparatus of claim 33, wherein the database is an object oriented database.
 - 37. The apparatus of claim 36, wherein objects in the database are persistent objects.
- 38. The apparatus of claim 33, wherein the information in the database further includes historical information.
- 39. The apparatus of claim 33, further comprising an editor for editing information in the database.
 - 40. The apparatus of claim 33, wherein the risk is a risk of terrorist attack.
- The apparatus of claim 33, wherein the decision support system employs a Bayesian network.

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